Shenzhen ORT Technical Services Co., Ltd.

TEST REPORT

thenticity veri
ıeck Code: 9SD0

Report Number ORT250827112001-R01					
Sample Name:	**Smartphone**		**Applicant:**	**Shenzhen Huafurui Technology Co., Ltd.**	
Model:	**KINGKONG MINI 4**		**Address:**	**Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China**	
Spec:	**Black+Grey 、Black+Green**		**Vendor or Supplier:**	**Shenzhen Huafurui Technology Co., Ltd.**	
Brand:	**CUBOT**		**Address:**	**Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China**	
Sample Quantity:	**5 Pcs**		**Manufacturer:**	**Shenzhen Huafurui Technology Co., Ltd.**	
Specimen Source:	**Submitted by applicant**		**Address:**	**Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China**	
Received Date:	**Aug. 29, 2025**	**Detection Date:**	**Aug. 30, 2025~ Sep. 03, 2025**	**Report Date:**	**Sep. 04, 2025**
Test Requirement:	**For further details, please refer to the following page(s).**				
Test Item:	**1.IPX9K Test; 2.IP6KX Test; 3.IP6X Test; 4.IPX8 Test; 5.Vibration Test; 6.Drop Test; 7.Combined Temperature and Shock Test.**				
Decision Rules:	**For further details, please refer to the following page(s).**				
Test Conclusion:	**PASS/Details see the summary of test results on the next page.**				

Tested By:	**Jim Ke**	**Date:** **Sep. 04, 2025**	**Shenzhen ORT Technical Services Co., Ltd.** 检验检测专用章 **Sep. 04, 2025**
Signature:	Jim. ke		
Checked By:	**Lonny Chen**	**Date:** **Sep. 04, 2025**	
Signature:	Lonny chen		
Approved By:	**Makoto. Wu**	**Date:** **Sep. 04, 2025**	
Signature:	Makoto. Wu		
Note：/			

Ⅰ Testing Overview

1.Sample information

Name	Model	Quantity	Sample No.
Smartphone	KINGKONG MINI 4	5 Pcs	ORT250827112001-SS1/5~SS5/5

2.Summary of test results

No.	Test record	Test item	Sample test results (ORT250827112001-SS1/5~SS5/5)		
			PASS	FAIL	N/A
1	Page 4 of this report	IPX9K Test	SS1/5:PASS	/	/
2	Page 4 of this report	IP6KX Test	SS2/5:PASS	/	/
3	Page 5 of this report	IP6X Test	SS3/5:PASS	/	/
4	Page 6 of this report	IPX8 Test	SS4/5:PASS	/	/
5	Page 6 of this report	Vibration Test	SS1/5:PASS	/	/
6	Page 7 of this report	Drop Test	SS1/5, SS5/5:PASS	/	/
7	Page 8 of this report	Combined Temperature and Shock Test	SS5/5:PASS	/	/

Note:1. "PASS" means Conformity Rule, "FAIL" means Nonconformity Rule, and "N/A" means Not Applicable.

2. When customers have no Decision Rule requirements for Test setup, P.T.O For test records and test results.

II Test Records

1 Test Item: IPX9K Test

1.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	High Temperature and High Pressure Jet Test Machine	TL-IPX9K-1000L	ORT-GYPS-01	2026.06.18

1.2 Test Environment: Temperature: 26.5 ℃; Relative Humidity: 55 %.

1.3 Test Method/Specification: According to ISO 20653:2023.

1.4 Test Conditions:

Rotation speed: (5±1) r/min;
Spraying angle: 0°, 30°, 60°, 90°;
The distance from nozzle to enclosure surface: 100 mm～150 mm;
Water flow rate: (14～16) L/min;
Water temperature: (80±5)℃;
Duration: 30 s/Position.

1.5 Acceptance Criteria:

Directional spray cleaning of the shell in any direction should not cause any damage.

1.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS1/5	There's no visible damage to the appearance of the sample, the function of sample is normal.	Pass

2 Test Item: IP6KX Test

2.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Sand and Dust Test Chamber	TL-SC-1000	ORT-SC1000-01	2026.06.19
2	IP4X Test Probe	IP4X/1N Thrust	ORT-IP4X-01	2026.06.22

2.2 Test Environment: Temperature: 26.7 ℃; Relative Humidity: 56 % .

2.3 Test Method/Specification: According to ISO 20653:2023.

2.4 Test Conditions:

1) The level of protection indicated by the first characteristic for approaching hazardous components Number, first characteristic number 6 K 1.0mmΦ The test line should not be pierced and sufficient clearance should be maintained.

2) Protection against solid foreign objects represented by the first characteristic number and the first characteristic number 6 K.

Mode dust movement: Air and dust mixing exercise for 6 s, pause for 15 min

Test duration: 20 cycles

2.5 Acceptance Criteria:

The sample was not punctured by the test probe and there was sufficient clearance between the sample and the hazardous parts. After the test, the sample function is normal, after the disassembly inspection, there is no dust inside.

2.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS2/5	The sample is not punctured by the test probe and there is sufficient clearance between the sample and the hazardous parts.After test, The function of sample is normal, and there is no dust inside the sample after disassembly .	Pass

3 Test Item: IP6X Test

3.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Sand and Dust Test Chamber	TL-SC-1000	ORT-SC1000-01	2026.06.19
2	IP4X Test Probe	IP4X/1N Thrust	ORT-IP4X-01	2026.06.22

3.2 Test Environment: Temperature: 26.6 ℃; Relative Humidity: 55 %.

3.3 Test Method/Specification: According to IEC 60529:1989/AMD2:2013/COR1:2019.

3.4 Test Conditions:

1) Degrees of protection against access to hazardous parts:

The test wire of Φ1.0mm shall not penetrate and adequate clearance shall be kept.

2) Degrees of protection against solid foreign objects:

2.1 During the experiment, the dosage of talc powder was 2 kg/m3, And test for 8 hours.

2.2 The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. A volume of air 80 times the volume of the sample enclosure, the extraction rate of 40 volumes per hour, and test 2 hours.

3.5 Acceptance Criteria:

The sample was not punctured by the test probe and there was sufficient clearance between the sample and the hazardous parts. After the test, the sample function is normal, after the disassembly inspection, there is no dust inside.

3.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS3/5	The sample is not punctured by the test probe and there is sufficient clearance between the sample and the hazardous parts.After test, The function of sample is normal, and there is no dust inside the sample after disassembly .	Pass

4 Test Item: IPX8 Test

4.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Water Immersion Pressure Tester	TL-IPX8-600	ORT-IPX8-01	2026.06.17

4.2 Test Environment: Temperature: 26.8 ℃; Relative Humidity: 54 %.

4.3 Test Method/Specification: According to IEC 60529:1989/AMD2:2013/COR1:2019.

4.4 Test Conditions:

1) Put the sample into the test device;

2) Depth: 1.5 m; Test duration: 30 min;

3) The temperature difference between the water and the sample is no more than 5 K.

4.5 Acceptance Criteria:

1) After testing, check the functionality of the sample and whether there is water ingress inside the casing;

2) Continuous immersion in water, if water enters, the amount of water entering the casing should not cause damage to the product.

4.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS4/5	There's no visible damage to the appearance of the sample, the function of sample is normal, and there is no water inside the sample after disassembly.	Pass

5 Test Item: Vibration Test

5.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Vibration Tester	MPA406/M232A	ORTZD2000-01	2026.06.17
2	Vibration Tester	IPA60H/LS544A	ORTZD5000-01	2026.06.17

5.2 Test Environment: Temperature: 25.8 ℃; Relative Humidity: 52 %.

5.3 Test Method/Specification: According to client's requirements.

5.4 Test Conditions:

Frequency (Hz)	Acceleration (g)	Displacement (mm)	Test axis	Test time
5～14	/	5.08	X, Y, Z axis	2 h/axis
14～33	2	/		
33～52	/	0.91		
52～500	5	/		

5.5 Acceptance Criteria: After the test, the appearance of the sample is normal and the function is normal.

5.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS1/5	There's no visible damage to the appearance of the sample, the function of sample is normal.	Pass

6 Test Item: Drop Test

6.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Drop Tester	LX-DL-315	ORT-DL-01	2026.06.17

6.2 Test Environment: Temperature: 26.8 ℃; Relative Humidity: 54 %.

6.3 Test Method/Specification: According to MIL-STD-810H:2019, Method 516.8.

6.4 Test Conditions:

Height of drop: 122 cm

Orientation of drop: 6 faces, 8 corners, 12 edges.

Number of drop: 1 times/orientation, totally 26 times.

Note: Testing with a total mass M<45 Kg is allowed on both test samples.

ORT250827112001-SS1/5 sample for the drop of corners and faces (14 times in total);

ORT250827112001-SS5/5 sample for the drop of edge (12 times in total).

6.5 Acceptance Criteria: After the test, the appearance of the sample is normal and the function is normal.

6.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS1/5, SS5/5	The appearance of the sample is normal, and the function is normal.	Pass

7 Test Item: Combined Temperature and Shock Test

7.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Vibration Tester	MPA406/M232A	ORTZD2000-01	2026.06.17
2	Rapid Temperature Change Test Chamber	TH15-1000DHVB	ORTKWB1000-01	2026.06.17

7.2 Test Environment: Temperature: 26.3 ℃; Relative Humidity: 53%.

7.3 Test Method/Specification: According to client's requirements.

7.4 Test Conditions:

Shock Test Parameter		Temperature Test Parameter
Pulse Shape:	Half Sine	-55℃, 70℃.
Peak Acceleration:	30 g	
Pulse Duration:	6 ms	
Test Orientation:	±X, ±Y, ±Z axis	
Test Time:	2 times/axis, 12 times in total.	
Note: the sample should stay in the test chamber for 30 min after the shock test, then take out and check.		

7.5 Acceptance Criteria: After the test, the appearance of the sample is normal and the function is normal.

7.6 Test Result:

Sample No.	Inspection after test	Conclusion
ORT250827112001-SS5/5	The appearance of the sample is normal, and the function is normal.	Pass

III Test photo and test curve:

Test Item 1: IPX9K test (ORT250827112001-SS1/5)

Fig.1 Appearance inspection before test

Fig.2 Appearance inspection before test

Fig.3 Power-on inspection before test

Fig.4 Test setup

Fig.5 Appearance inspection after test

Fig.6 Appearance inspection after test

Fig.7 Power-on inspection after test

Test Item 2: IP6KX Test (ORT250827112001-SS2/5)

Fig.8 Appearance inspection before test

Fig.9 Appearance inspection before test

Fig.10 Power-on inspection before test

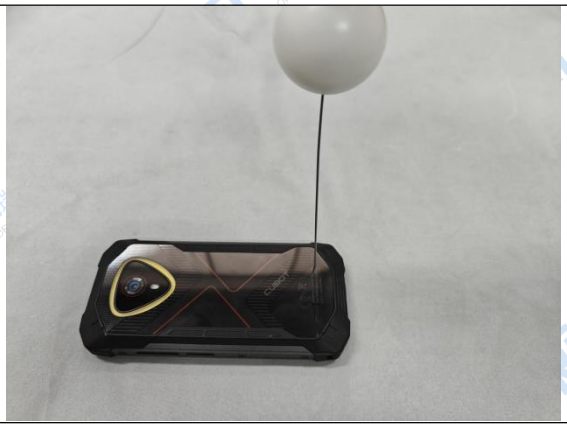

Fig.11 Test setup

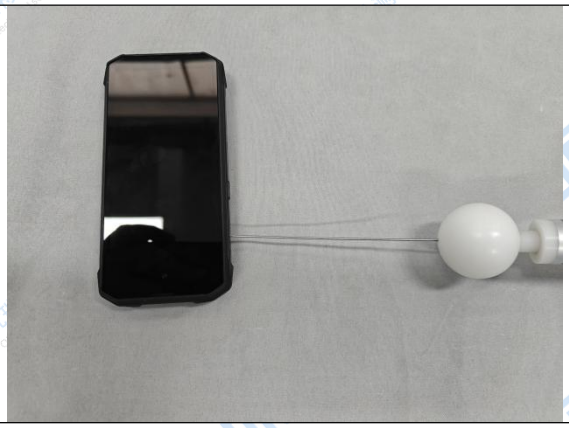

Fig.12 Test setup

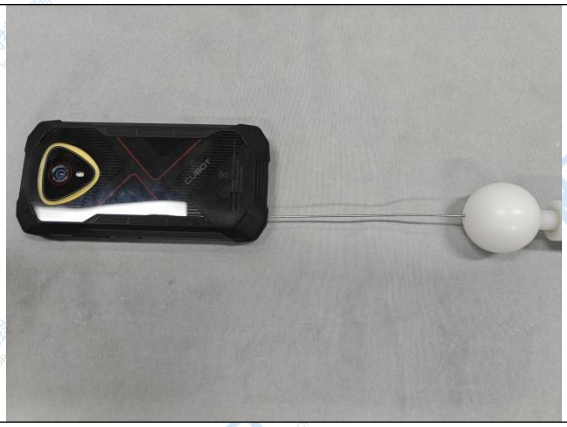

Fig.13 Test setup

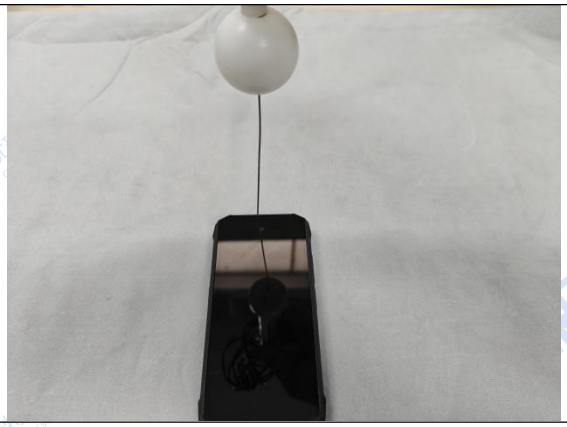

Fig.14 Test setup

Fig.15 Test setup

Fig.16 After test

Fig.17 Appearance inspection after test

Fig.18 Appearance inspection after test

Fig.19 Power-on inspection after test

Fig.20 Inspection after disassembly

Test Item 3: IP6X Test (ORT250827112001-SS3/5)

Fig.21 Appearance inspection before test

Fig.22 Appearance inspection before test

Fig.23 Power-on inspection before test

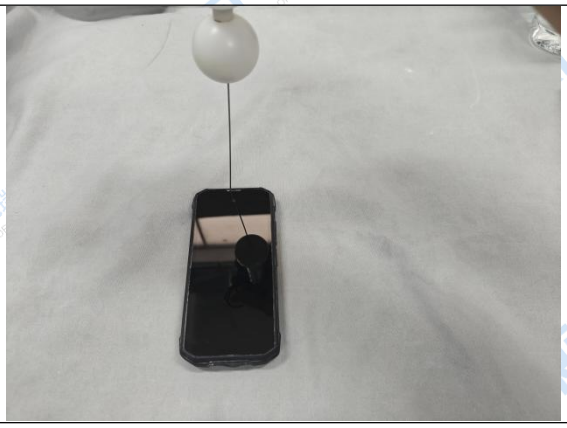

Fig.24 Test setup

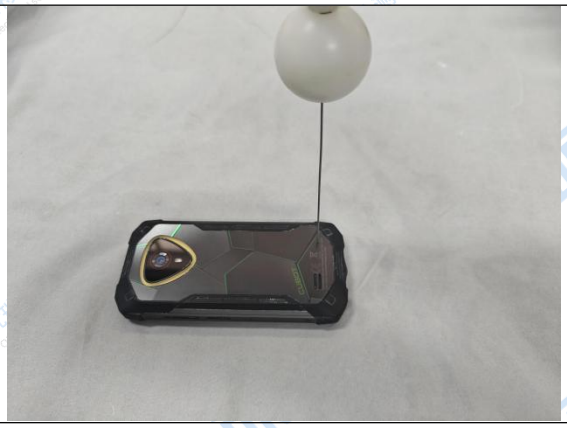

Fig.25 Test setup

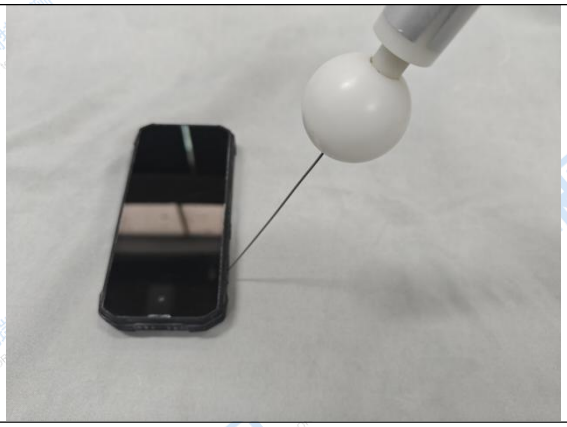

Fig.26 Test setup

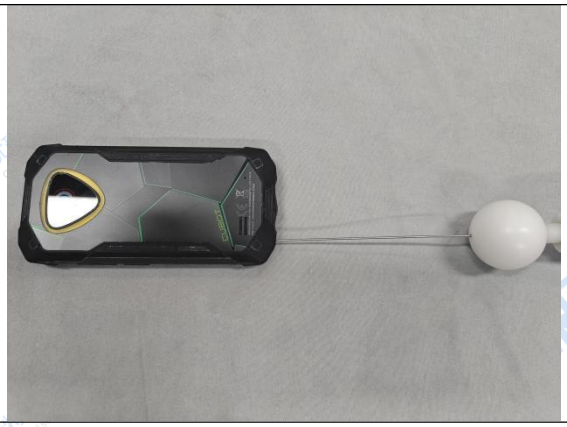

Fig.27 Test setup

Fig.28 Test setup

Fig.29 After test

Fig.30 Appearance inspection after test

Fig.31 Appearance inspection after test

Fig.32 Power-on inspection after test

Fig.33 Inspection after disassembly

Test Item 4: IPX8 Test (ORT250827112001-SS4/5)

Fig.34 Appearance inspection before test

Fig.35 Appearance inspection before test

Fig.36 Power-on inspection before test

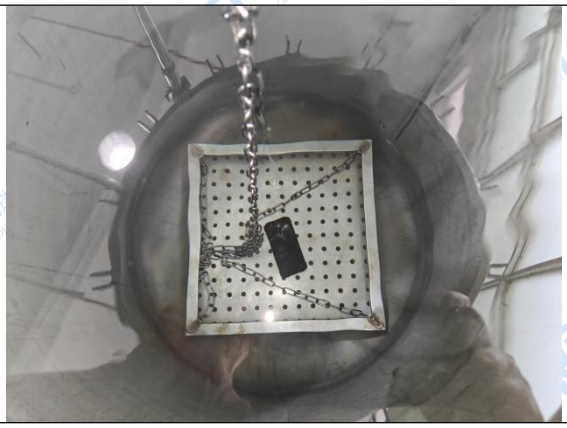

Fig.37 Test setup

Fig.38 Test setup

Fig.39 Appearance inspection after test

Fig.40 Appearance inspection after test

Fig.41 Power-on inspection after test

Fig.42 Inspection after disassembly

Test Item 5: Vibration Test (ORT250827112001-SS1/5)

Fig.43 Appearance inspection before test

Fig.44 Appearance inspection before test

Fig.45 Power-on inspection before test

Fig.46 Test setup (X axis)

Fig.47 Test setup (Y axis)

Fig.48 Test setup (Z axis)

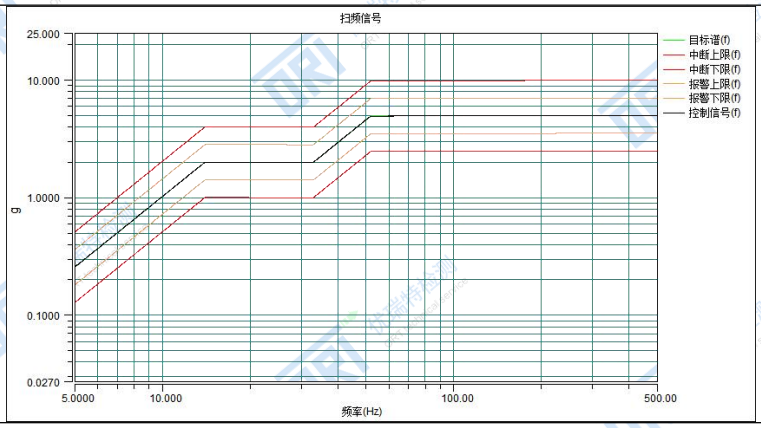

Fig.49 Test Spectrum (X axis)

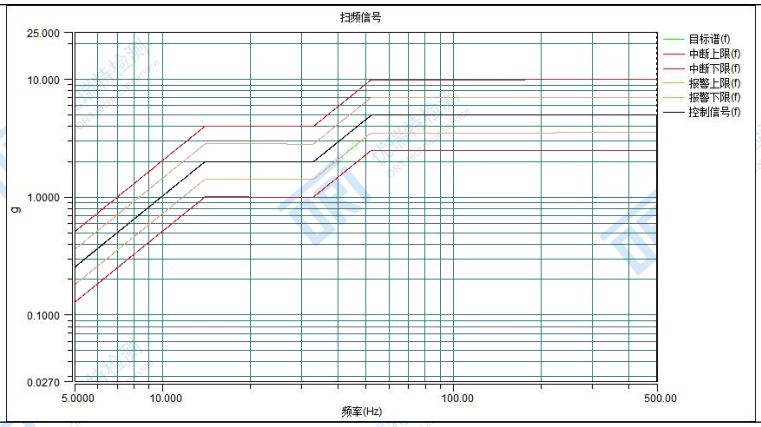

Fig.50 Test Spectrum (Y axis)

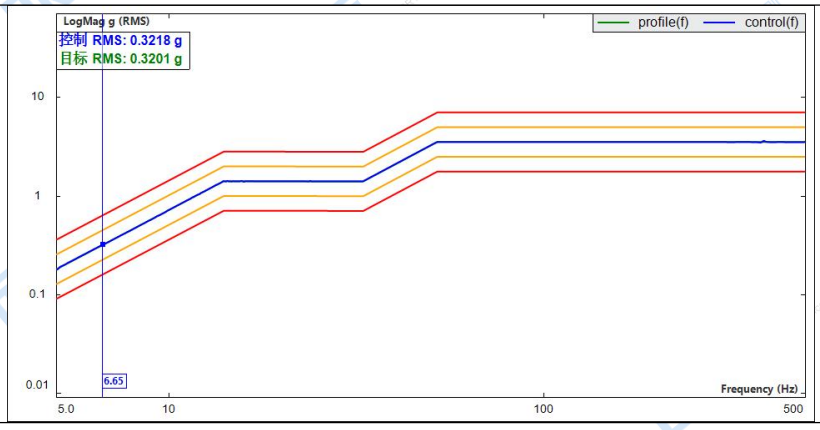

Fig.51 Test Spectrum (Z axis)

Fig.52 Appearance inspection after test

Fig.53 Appearance inspection after test

Fig.54 Power-on inspection after test

Test Item 6: Drop Test(ORT250827112001-SS1/5, SS5/5)

Fig.55 Appearance inspection before test SS1/5

Fig.56 Appearance inspection before test SS1/5

Fig.57 Power-on inspection before test SS1/5

Fig.58 Appearance inspection before test SS5/5

Fig.59 Appearance inspection before test SS5/5

Fig.60 Power-on inspection before test SS5/5

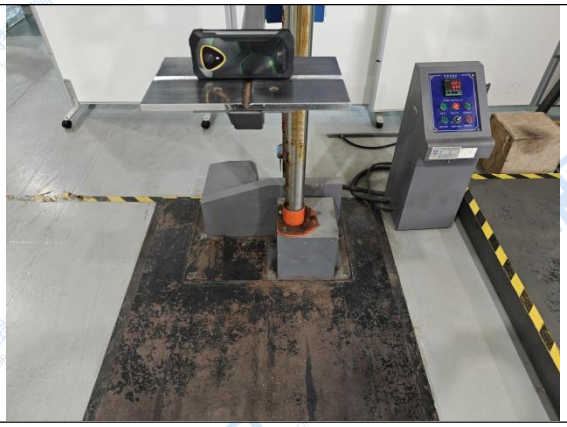

Fig.61 Test setup- Face (1)

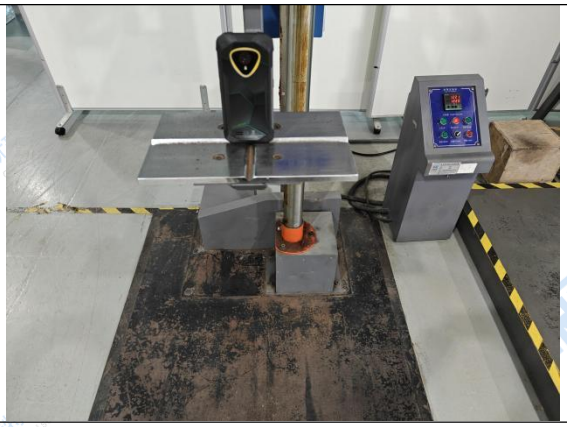

Fig.62 Test setup- Face (2)

Fig.63 Test setup- Face (3)

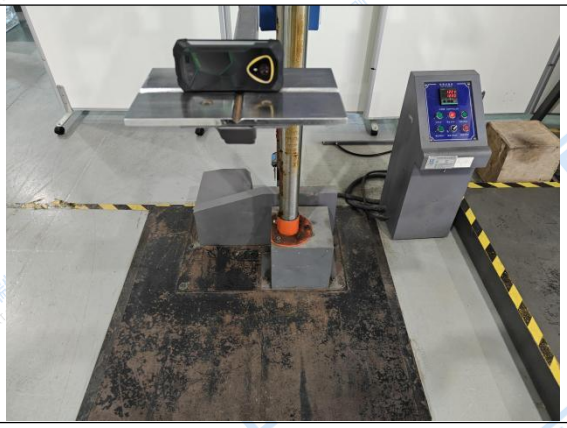

Fig.64 Test setup- Face (4)

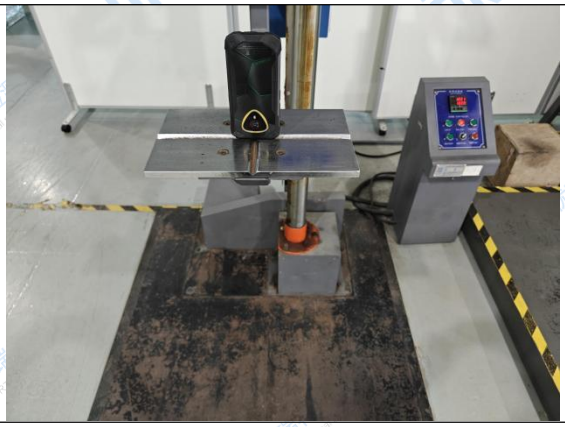

Fig.65 Test setup- Face (5)

Fig.66 Test setup- Face (6)

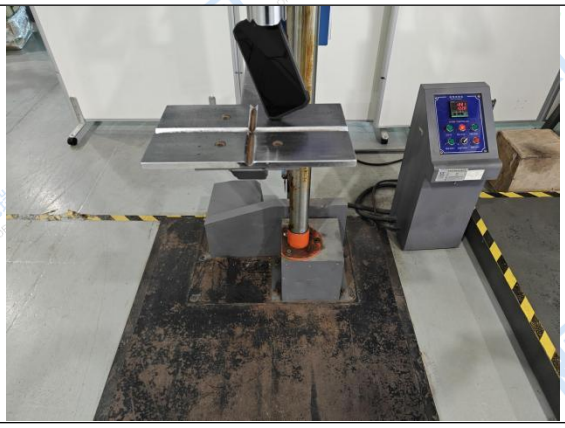

Fig.67 Test setup- Corner (1)

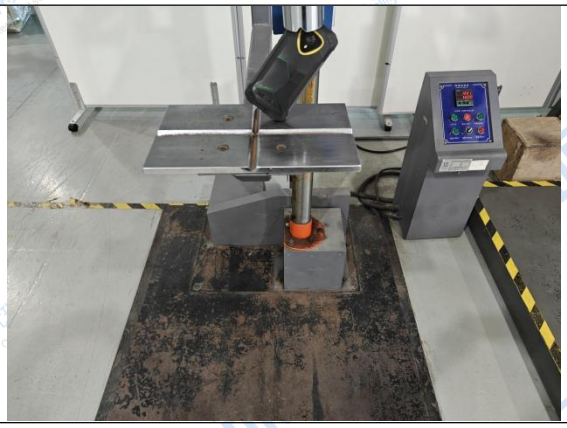

Fig.68 Test setup- Corner (2)

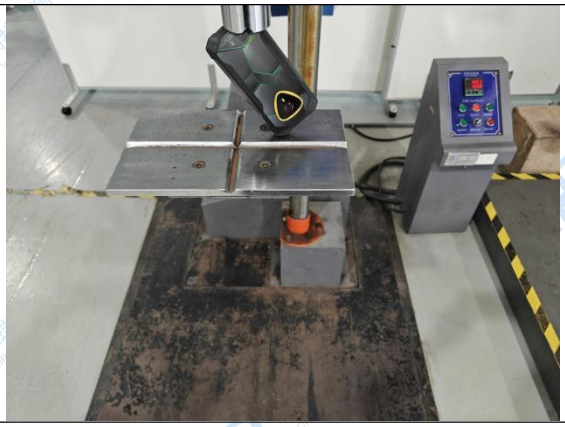

Fig.69 Test setup- Corner (3)

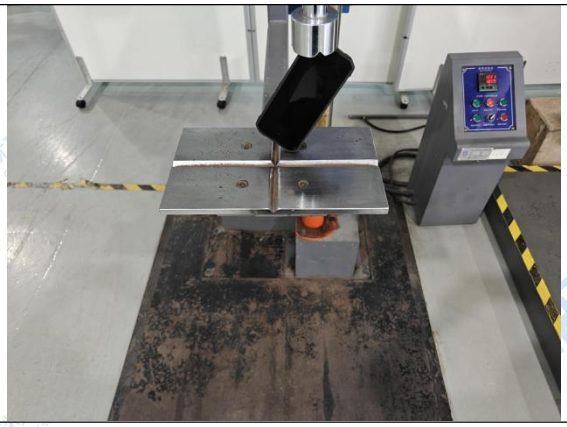

Fig.70 Test setup- Corner (4)

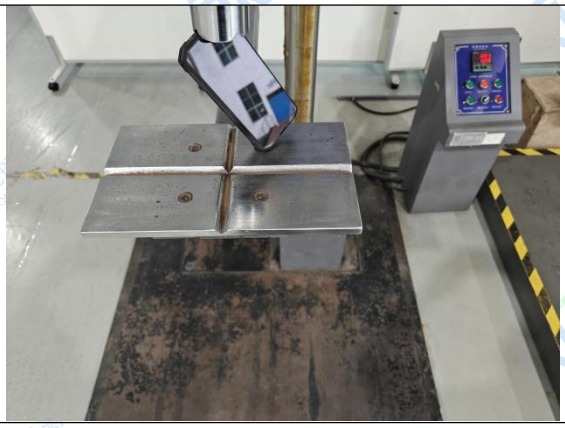

Fig.71 Test setup- Corner (5)

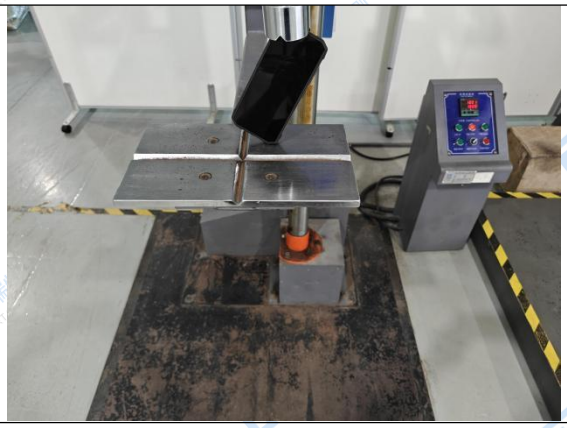

Fig.72 Test setup- Corner (6)

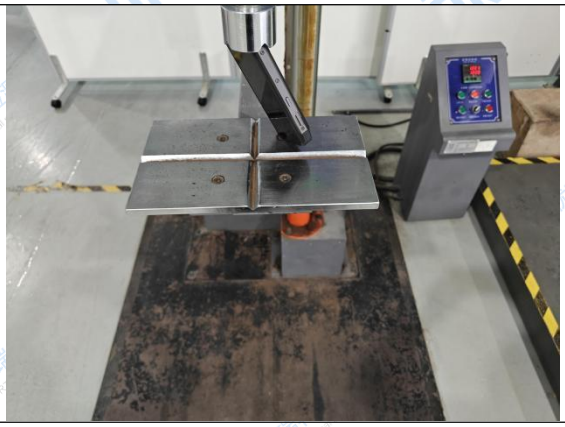

Fig.73 Test setup- Corner (7)

Fig.74 Test setup- Corner (8)

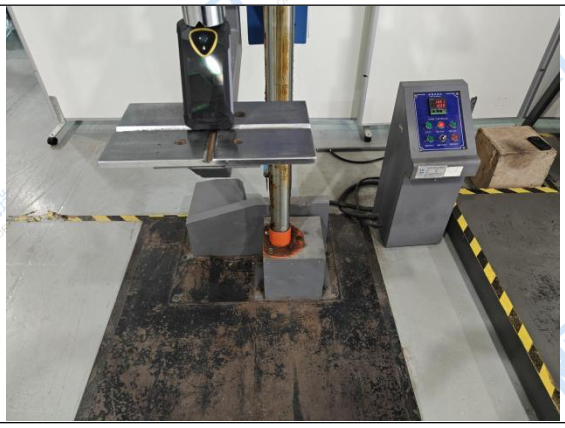

Fig.75 Test setup- Edge (1)

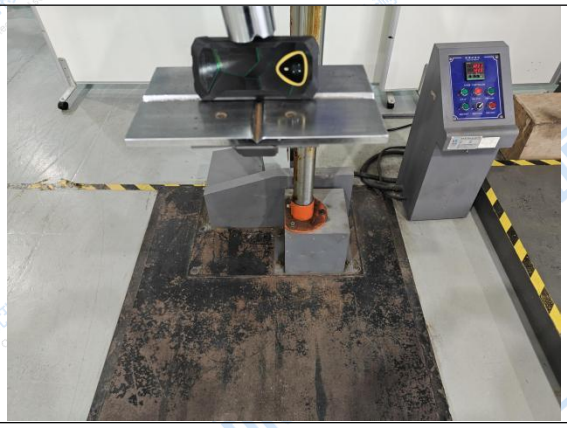

Fig.76 Test setup- Edge (2)

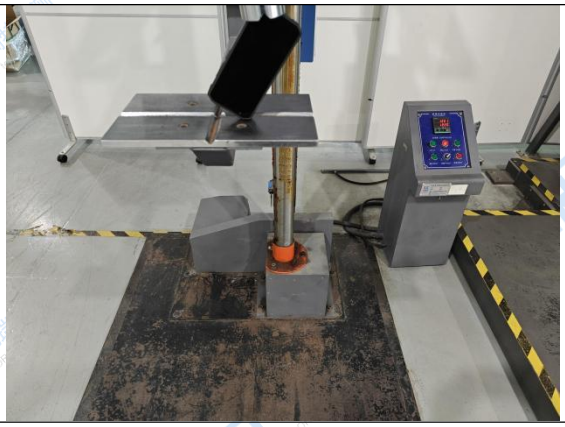

Fig.77 Test setup- Edge (3)

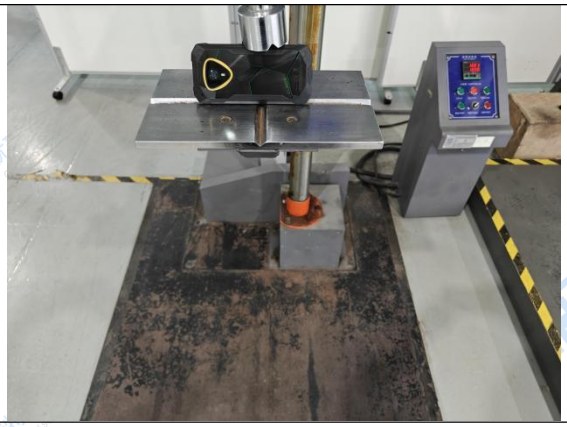

Fig.78 Test setup- Edge (4)

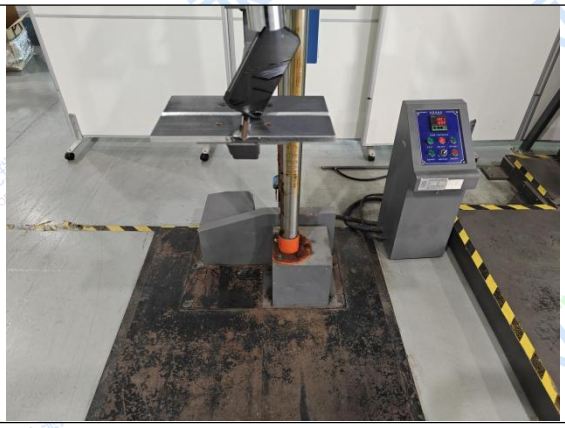

Fig.79 Test setup- Edge (5)

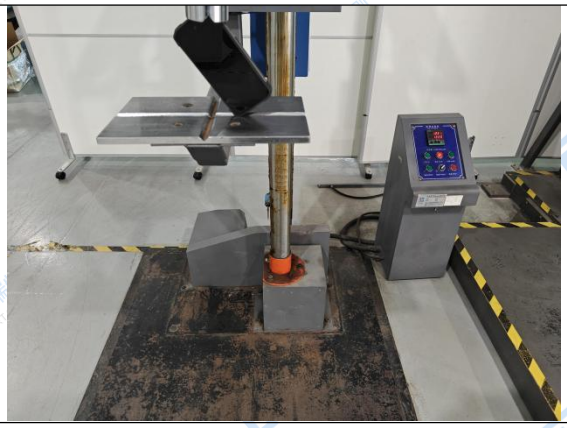

Fig.80 Test setup- Edge (6)

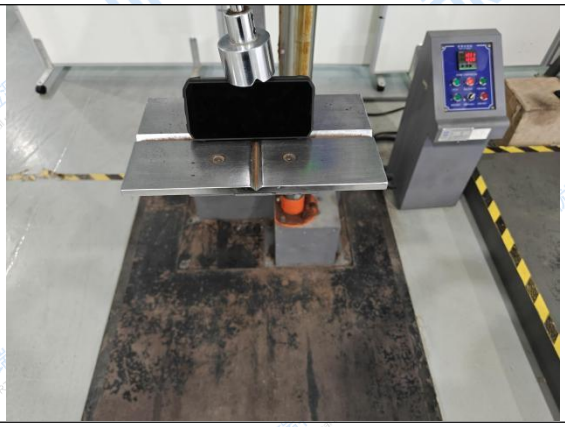

Fig.81 Test setup- Edge (7)

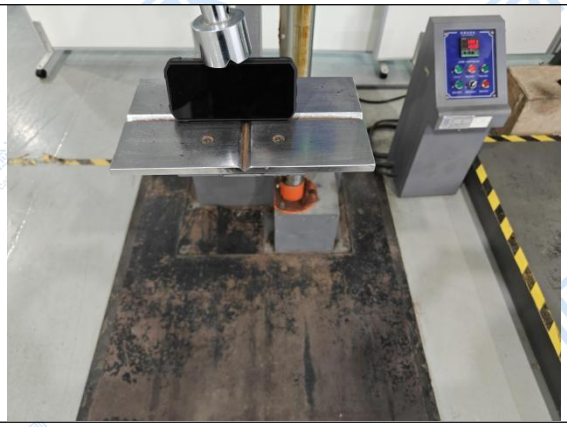

Fig.82 Test setup- Edge (8)

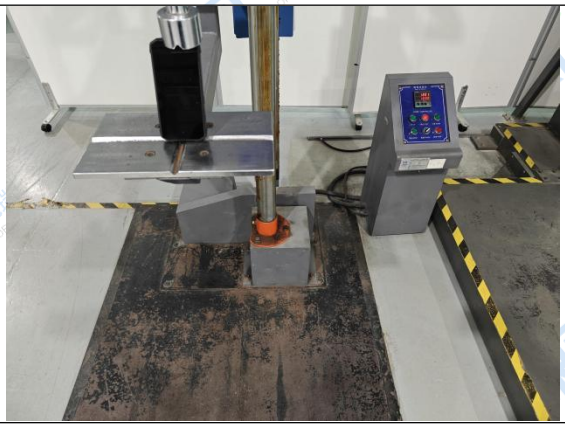

Fig.83 Test setup- Edge (9)

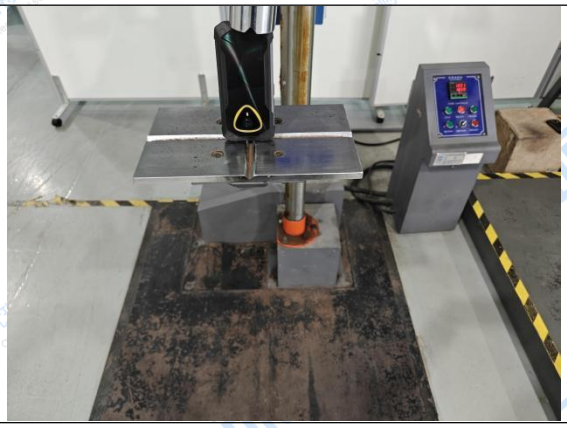

Fig.84 Test setup- Edge (10)

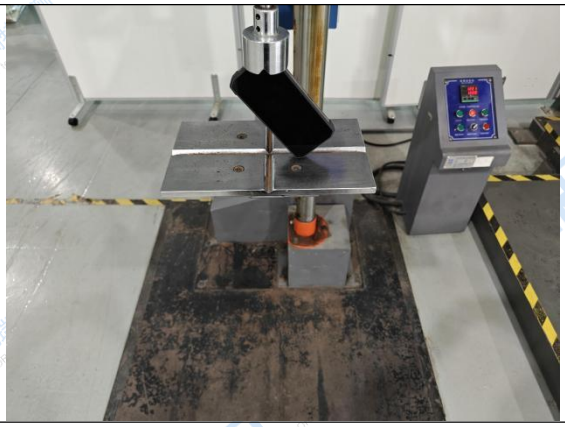

Fig.85 Test setup- Edge (11)

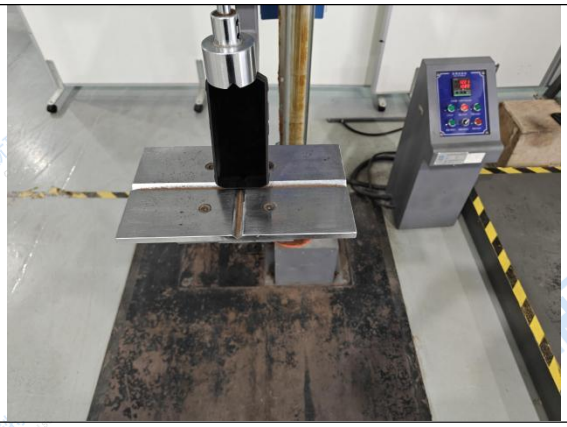

Fig.86 Test setup- Edge (12)

Fig.87 Appearance inspection before test SS1/5

Fig.88 Appearance inspection before test SS1/5

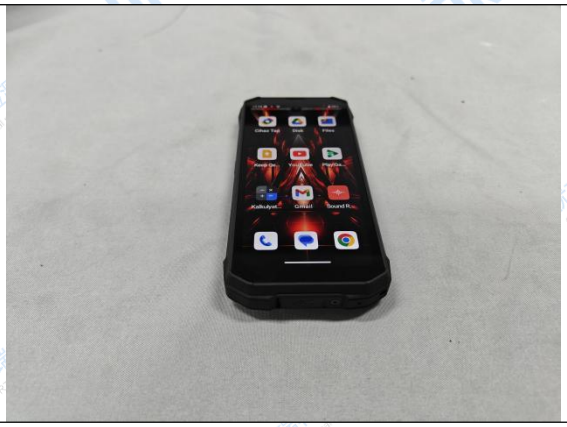

Fig.89 Power-on inspection before test SS1/5

Fig.90 Appearance inspection before test SS5/5

Fig.91 Appearance inspection before test SS5/5

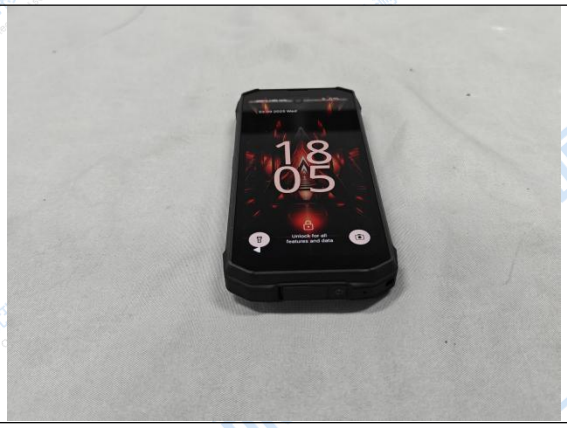

Fig.92 Power-on inspection before test SS5/5

Test Item 7: Combined Temperature and Shock Test (ORT250827112001-SS5/5)

Fig.93 Power-on inspection before test

Fig.94 Appearance inspection before test

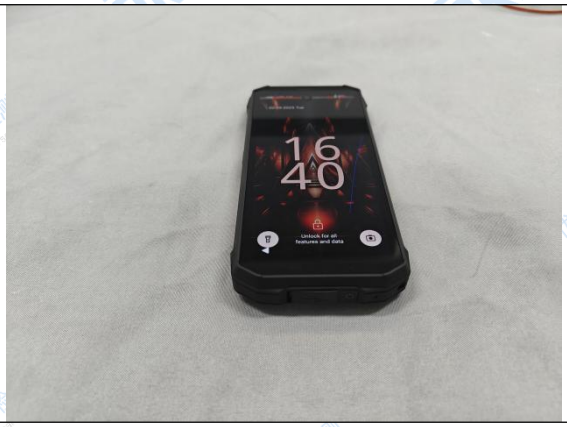

Fig.95 Power-on inspection before test

Fig.96 Temperature:-55℃

Fig.97 Temperature: 70℃

Fig.98 Test setup (X axis)

Fig.99 Test setup (Y axis)

Fig.100 Test setup (Z axis)

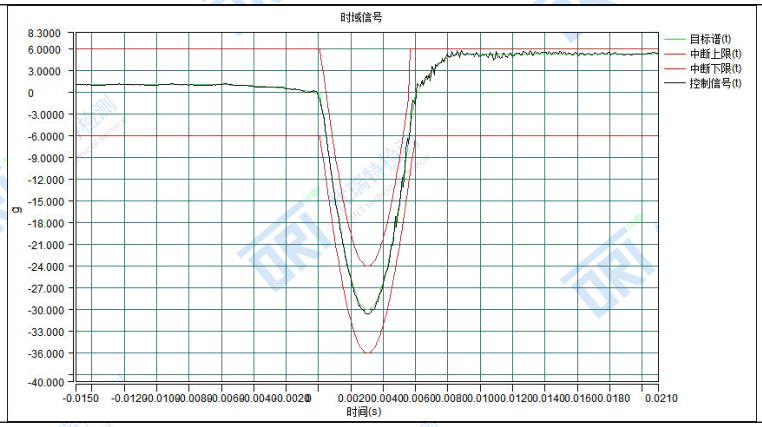

Fig.101 Test Curve (+)

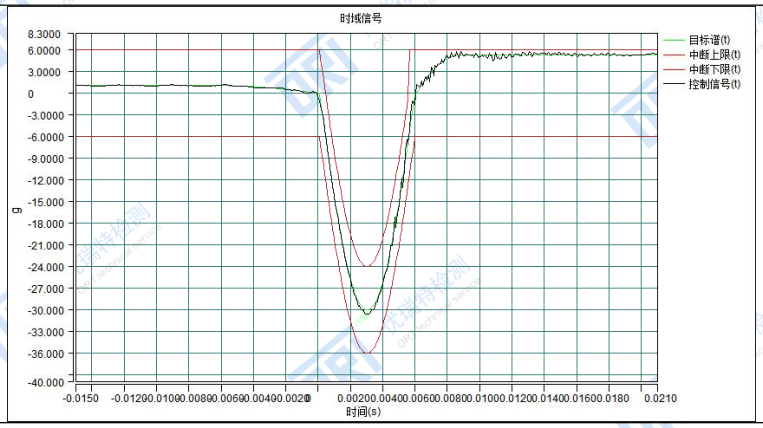

Fig.102 Test Curve (-)

Fig.103 Appearance inspection after test

Fig.104 Appearance inspection after test

Fig.105 Power-on inspection after test

*** End of Report ***